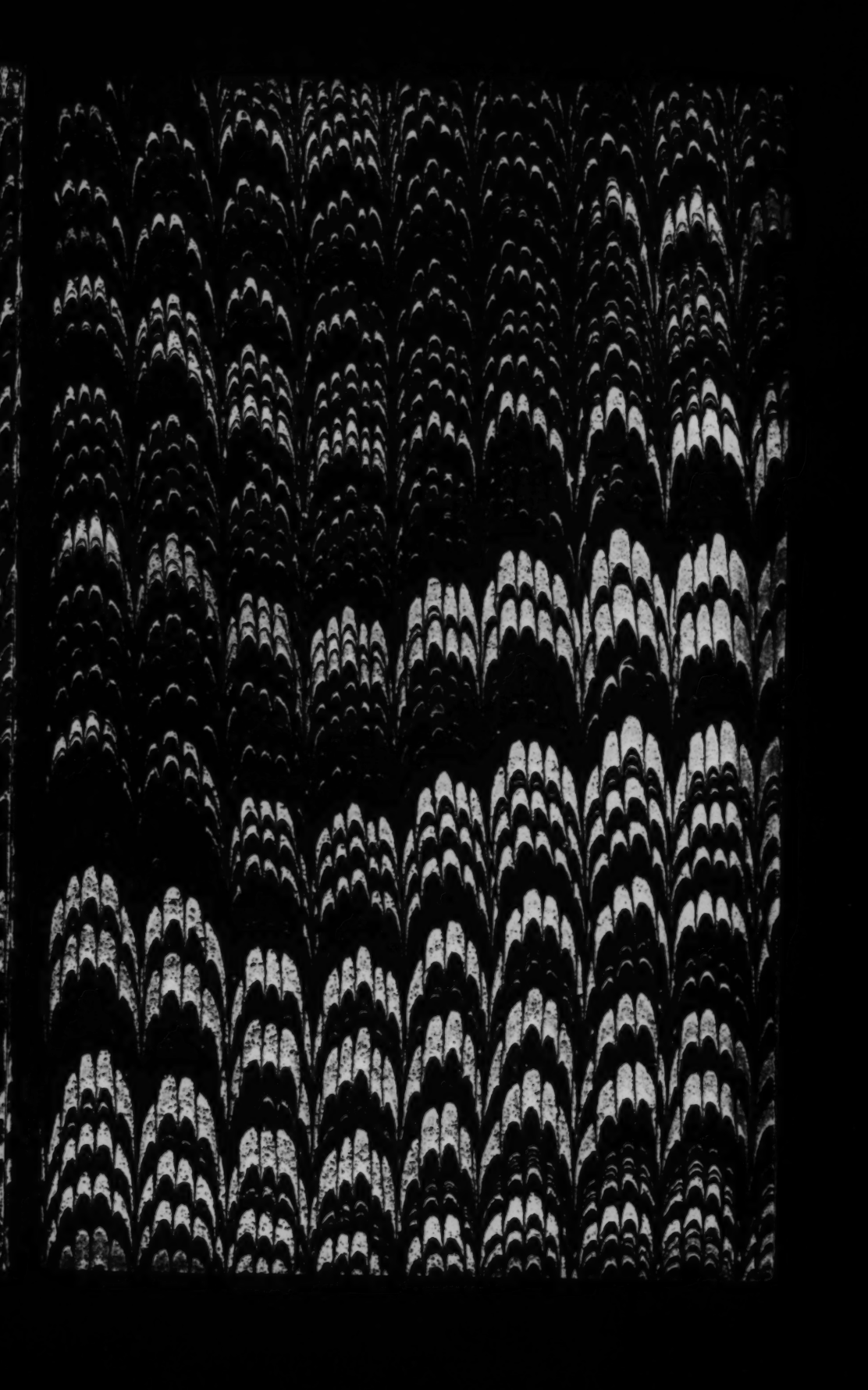




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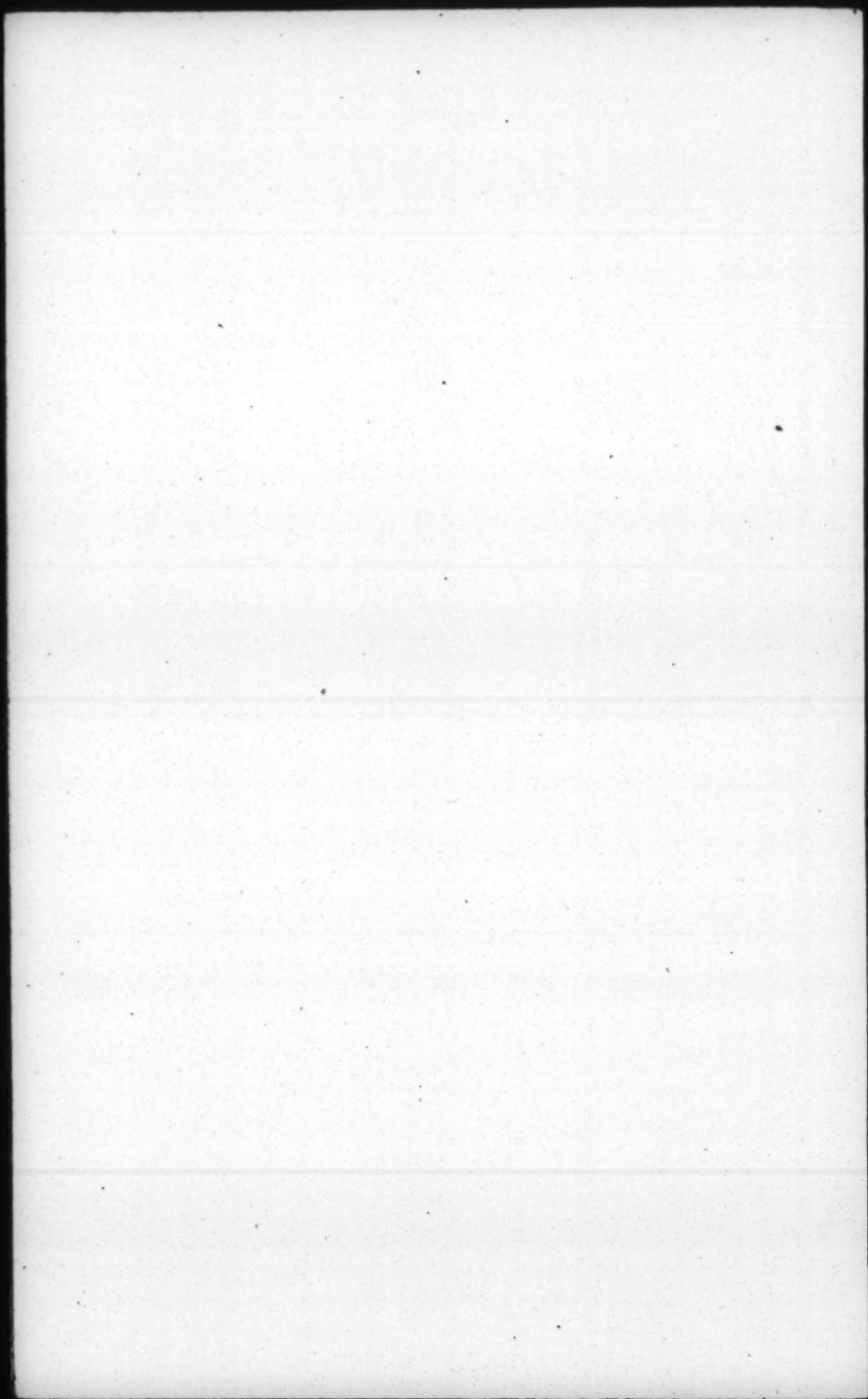
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Wahnamah Ketchikan

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November 30, 1951



1 6 7 3.

A N

ALMANACK

O F

Cœlestial Motions for the Year of the
CHRISTIAN ÆRA.

1 6 7 3.

*Being second after Leap year, and from
the Creation,*

5 6 2 2.

The Vulgar Notes are

Prime	02	}	Cycle of the Sun.	02
Roman Indiction	11		Epact.	21
Dominical Letter.	E		Numb. of Direct	00

Calculated for the Longitude of *31.5. gr.*
& North Latitude *42. gr. 30. m.*

By *N. H.*

Gen. 1. 5. 6. *Fecit Deus duo Luminaria magna: Luminare
maius ad præsecuturam diei, & Luminare minus ad præ-
secuturam noctis: fecit etiam stellas.*
Astra inclinant, non necessitant.

C A M B R I D G E :

Printed by *Samuel Green.* 1 6 7 3.

Eclipses. 1673.

This year will happen three Eclipses, two of the greater and one of the lesser Luminary.

The first, of the Sun upon the 2d. of August 34 m. past 4 in the morning, &c 28 m. before Sun rise: which by reason of the South Latitude of the Moon will be invisible to these Northern parts, but may appear very great at the South Cape of Africa.

The Second will be of the Moon on Jan. 11. 44 m. past midnight, which may be visible here if weather prevents not: The lower part of the moons body will pass through the upper part of the Earths shadow.

Thus Calculated

The beginning 11 h. 12 m. 28 s.

The middle or greatest darkness 12 h. 44 m.

The end. 2 h. 15 m. 32 s.

Total Duration. 3 h. 2 m. 4 s.

Digits Eclipsed 10. 56.

The third will be of the Sun Jan. 26. about 4 h. afternoon which will be partile: visible in *Livira* and *California* and other places lying hence N. W. but not probable to be seen here.

A Table of the half shining of these Stars whose Southings are calculated in the Almanack.

	b	m.	By this Table may be found easily
Arcturus	7	22	both the rising and setting of the said
Spica virginis	5	25	Stars, the Southing being first known.
Cor Aquila	6	30	1. For the rising: Subtract the half
Antares	4	16	Shining of the Star from the time of it's
Superius corol	5	09	Southing, the remainder gives the time of
Formahant	3	48	rising.
Lucida pleiad.	7	32	2. For setting: Add the time of half
Revel	5	28	Shining to the time of Southing, the
Aldebaran	7	00	whole gives the time of setting, As,
Syrus	4	58	March. Arcturus Southes 2 h 33 mor
Castor	8	23	the time of its half shining is 7 h 22 m
			which untracted from 2 h 33 m gives the time of rising to be 7 h
			11 m night. but added to 2 h 33 m gives the time of its rising to
			be 9 h 55 m in morning for that day.

The Earths and Suns Ingress into the 4 Cardinal points.

Centers }
Earth
Centers

March 9 day 6 h 00 m

June 10 day 8 h 27 m

September 12 day 10 h 24 m

December 10 day 11 h 26 m.

MARCH bath 31 days.

- ① New Moon 8. day 8 m past 8 in morning.
- ② Second quarter 15 day 56 m past 11 before noon.
- ③ Full Moon 22 day 33 m past 7 in morning.
- ④ Last quarter 30 day 7 m past 2 in morn.

M. W. Plan. Asp. Courts &c. Arch. S. Spic. Vir. S. ☉ Plac e. ☿

1 7	☐ ☿ Lun	02 M 33	01 m 41	21 50	☿
2 8	☾ Apog.	12 29	01 38	22 49	
3 2		12 25	01 34	23 49	
4 3	Court Affi ^r Boston &	02 22	01 31	24 48	
5 4	(Court Plim	02 18	01 27	25 47	
6 5	County Court Hartford	12 15	01 24	26 46	☿
7 6		12 11	01 20	27 45	
8 7	☿ Lun	12 08	01 16	28 44	
9 8		12 04	01 12	29 43	☿
10 2	Day & night equal.	12 00	01 08	30 42	☿
11 3	County Court Fairfield,	01 57	01 05	01 41	☿
12 4	☿ Lun	01 53	01 01	02 40	☿
13 5		01 49	12 58	03 39	☿
14 6	☿ ☿ ☿	01 46	12 54	04 38	☿
15 7	☿ ☿ ☿	01 42	12 51	05 37	☿
16 8	☿ ☿ ☿	01 39	12 47	06 36	☿
17 2		01 35	12 43	07 35	☿
18 3	☿ ☿ ☿	01 32	12 40	08 34	☿
19 4		01 28	12 36	09 33	☿
20 5		01 25	12 33	10 32	☿
21 6	☿ ☿ Lun	01 21	12 29	11 31	☿
22 7	☿ ☿ ☿	01 17	12 25	12 30	☿
23 8	☿ ☿ ☿	01 13	12 22	13 29	☿
24 2	☿ ☿ Lun	01 09	12 18	14 28	☿
25 3	County Court Ipswi. &	01 05	12 14	15 27	☿
26 4	(Northampton	01 02	12 11	16 26	☿
27 5		12 58	12 07	17 25	☿
28 6	Lun in Apog	12 54	12 03	18 24	☿
29 7		12 51	11 59	19 23	☿
30 8		12 47	11 56	20 22	☿
31 2	☿ Lun	12 43	11 52	21 21	☿

D. ☉ Rise. ☉ Sets Libghth D. ☉ Declin ☉ mer Alt ☉ Ampl

04	6 12 5 48	11 36	03 32	43 58	04 48
06	6 05 5 55	11 50	01 40	45 50	02 16
11	5 59 6 01	12 02	00 18	47 43	00 25
16	5 51 6 09	12 18	02 16	49 46	03 04
21	5 44 6 16	12 32	04 13	51 43	05 45
26	5 37 6 23	12 46	06 03	53 35	08 11

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This year will happen three Eclipses, two of the greater and one of the lesser Luminary.

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Superius cornu	5	09.	southing, the remainder gives the time of
Fornahant	5	48.	rising.
Lucida pleiad.	7	32.	2. For setting; Add the time of half
Regel	5	28.	shining to the time of southing, the
Aldebaran	7	00.	whole gives the time of setting, As,
Syrus	4	58.	March. Arcturus southes 2 h 33 m
Castor	8	23.	the time of its half shining is 7 h 32 m
			which subtracted from 2 h 33 m gives the time of rising to be 7 h
			11 m night. but added to 2 h 33 m gives the time of its rising to
			be 9 h 55 m in morning for that day.

The Earths and Suns Ingress into the 4 Cardinal points.

Centers	{	Earth centers	☊	March 9 day 6 h 00 m
			☊	June 10 day 8 h 27 m
			☊	September 12 day 6 h 24 m
			☊	December 10 day 11 h 36 m.

MARCH bath 31 dayes.

① New Moon 8. day 8 m past 8 in morning.

② Second quarter 15 day 56 m past 11 before noon.

③ Full Moon 22 day 33 m past 7 in morning.

④ Last quarter 30 day 7 m past 2 in morn.

M. W. Plan. Asp. Courts &c. Arct. S. Spic. Vir. S. ☉ pl. ac. e. ☿

1 7	☐ h Lun	02 M 33	01 m 41	21 50	W
2 5	☾ Apog.	12 29	01 38	22 49	
3 2		12 25	01 34	23 49	
4 3	Court Affi ³ Boston &	02 22	01 31	24 48	
5 4	(Court Plin	02 18	01 27	25 47	
6 5	County Court Hartford	12 15	01 24	26 46	X
7 6		12 11	01 20	27 45	
8 7	☿ h Lun	12 08	01 16	28 44	
9 8		12 04	01 12	29 43	
10 2	Day & night equal.	12 00	01 08	30 42	V
11 3	County Court Fairfield,	01 57	01 05	01 41	X
12 4	☿ ☿ Lun	01 53	01 01	02 40	
13 5		01 49	12 58	03 39	
14 6	☿ ☿ h	01 46	12 54	04 38	
15 7	<i>☿ ☿ h</i>	01 42	12 51	05 37	
16 8	<i>☿ ☿ h</i>	01 39	12 47	06 36	
17 2		01 35	12 43	07 35	
18 3	☿ h	01 32	12 40	08 34	
19 4		01 28	12 36	09 33	
20 5		01 25	12 33	10 32	
21 6	☿ h Lun	01 21	12 29	11 31	
22 7	☿ ☿ ☿	01 17	12 25	12 30	
23 8		01 13	12 22	13 29	
24 2	☿ ☿ Lun	01 09	12 18	14 28	
25 3	County Court Ipswi. &	01 05	12 14	15 27	
26 4	(Northampton	01 02	12 11	16 26	
27 5		12 58	12 07	17 25	
28 6	Lun in Apog	12 54	12 03	18 24	
29 7		12 51	12 56	19 23	
30 8		12 47	12 56	20 22	
31 2	☿ h Lun	12 43	12 52	21 21	

D. ☉ Rise. ☉ Sets Lihghth D ☉ Declin ☉ mer Alt ☉ Ampl

01	6 12	5 48	11 36	03 32	43 58	04 48
08	6 05	5 55	11 50	01 40	45 50	02 16
11	5 59	6 01	12 02	00 18	47 43	00 24
14	5 51	6 09	12 18	02 16	49 46	03 04
21	5 44	6 16	12 32	04 13	51 43	05 48
28	5 37	6 23	12 46	06 03	53 35	08 12

APRIL hath 30 dayes.

- 1 New Moon 6 day 33 m. past 8 night
- 2 Second quarter 13 d. y 00 m. past 6 morn.
- 3 Full Moon 20 day 30 m. past 7 night
- 4 Last quarter 28 d. y 7 m. past 8 night

M. W. Plan. Asp. Courts & Arcturus S. Spic. virg. S. O place C p 4 c

County Court Cambr.	12 M	11 N 49	3 V 23
1 3	2 36	11 45	23 21
2 4	2 32	11 41	24 20
3 5	2 29	11 38	25 18
4 6	2 25	11 34	26 17
5 7	2 21	11 30	27 15
6 8	2 17	11 26	28 14
7 9	2 14	11 22	29 12
8 10	2 10	11 19	30 10
9 11	2 08	11 15	01 09
10 12	2 03	11 11	02 07
11 1	1 59	11 08	03 05
12 2	1 56	11 04	04 04
1 3	1 52	11 00	05 02
2 4	1 49	10 57	06 00
3 5	1 45	10 53	07 58
4 6	1 41	10 49	08 57
5 7	1 37	10 45	09 55
6 8	1 33	10 41	10 54
7 9	1 30	10 37	11 50
8 10	1 26	10 34	12 48
9 11	1 22	10 30	13 46
10 12	1 18	10 26	14 44
11 1	1 15	10 22	15 42
12 2	1 11	10 19	16 40
1 3	1 07	10 15	17 38
2 4	1 03	10 11	18 36
3 5	0 59	10 08	19 34
4 6	0 55	10 04	20 31
5 7	0 52	10 00	21 29

Arct. 361 rem. eng. a D. Sal. 11. cl. So. mer. 11. 01. ampl.

1 3	2 4	3 5	4 6	5 7	6 8	7 9	8 10	9 11	10 12	11 1	12 2	13 3	14 4	15 5	16 6	17 7	18 8	19 9	20 10	21 11	22 12	23 1	24 2	25 3	26 4	27 5	28 6	29 7	30 8
13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13
04	16	30	43	56	08	22	34	47	59	11	23	35	48	01	13	25	37	49	02	14	26	38	50	03	15	27	39	51	04
08	10	22	34	46	58	10	22	34	46	58	10	22	34	46	58	10	22	34	46	58	10	22	34	46	58	10	22	34	46
22	34	46	58	10	22	34	46	58	10	22	34	46	58	10	22	34	46	58	10	22	34	46	58	10	22	34	46	58	10
55	57	59	61	63	65	67	69	71	73	75	77	79	81	83	85	87	89	91	93	95	97	99	01	03	05	07	09	11	13
52	40	28	16	04	31	19	07	55	43	31	19	07	55	43	31	19	07	55	43	31	19	07	55	43	31	19	07	55	43
11	23	35	47	59	11	23	35	47	59	11	23	35	47	59	11	23	35	47	59	11	23	35	47	59	11	23	35	47	59
49	47	45	43	41	39	37	35	33	31	29	27	25	23	21	19	17	15	13	11	09	07	05	03	01	59	57	55	53	51

MAY: hath 31 dayes.

- ☉ New Moon 6. day 31 m past 6 in morning.
- ☾ Second quarter 13 day 39 m past 7 more
- ☀ Full Moon 20 day 50 m past 8 in morning.
- ☾ Last quarter 27 day 41 m past 5 in more

M. W. P. M. Courts &c. Arct. S. Cor Aquil. S. place & P

15	Δ ES	10N	48	4	M 20	21	27	
26	♂ h Lun	10	44	4	17	22	24	γ
37		10	40	4	13	23	22	
48	2.500000	10	36	4	09	24	20	
52		10	32	4	05	25	17	δ
63	Court A. list Hartford	10	28	4	01	26	15	
74	Court ELECT. Bolton	10	24	3	57	27	13	η
85	Court ELECT. Hartford	10	20	3	53	28	10	
96		10	16	3	49	29	08	θ
107	☾ perig	10	12	3	45	30	05	
118	☐ h ♂	10	08	3	41	31	03	Ω
122	☐ h ♂	10	04	3	37	32	00	
133	♂ ♂	10	00	3	33	32	58	my
144		09	56	3	29	33	55	
155	♂ h Lun ♂ ♀ Lun	09	52	3	25	34	52	η
166		09	48	3	21	35	50	
177		09	44	3	17	36	47	μ
188	Δ Sol ♀	09	40	3	13	37	44	
199		09	36	3	09	38	42	
203	♂ ♂	09	32	3	05	39	40	↑
214		09	28	3	01	40	38	
225		09	24	3	57	41	36	vs
236	☾ Apog. ♂ ♂ Lun	09	20	3	53	42	34	
247		09	16	2	50	43	32	
258		09	12	2	46	44	30	ω
262		09	08	2	42	45	28	
273	♂ ♀ Lun	09	04	2	38	46	26	⋈
284		09	00	2	34	47	24	
295		08	56	2	30	48	22	
306	♂ h Lun	08	52	2	26	49	20	γ
317	☐ ♂ Lun	08	49	2	22	50	18	

D ☉ rise. ☉ sets Length D ☉ Declin ☉ mer Alt ☉ Ampl

01	4	51	7	09	14	13	17	55	61	29	23	18
06	4	48	7	15	14	30	19	10	65	47	26	30
11	4	40	7	20	14	40	20	26	67	55	28	20
16	4	37	7	23	14	46	21	10	63	45	29	20
21	4	31	7	27	14	54	21	58	69	28	30	29
26	4	29	7	31	15	02	22	35	73	06	31	22

7. *V N E* hath 30 days.

- ① New Moon 4. day 33 m past 2 afternoon
- ② Second quarter 11. day 57 m past 4 morn
- ③ Full Moon 18 day 16 m past 11 night
- ④ Last quarter 26 day 15 m. past 10 in morn.

V. W. Flan. Alp. Courts &c. Art. S Cor aqu. S. place. place

1	E	8	N. 4	02	18	21	II	06	☾
2	2	8	41	02	14	22		03	
3	3	8	37	02	10	23		00	II
4	4	8	34	02	06	23		57	
5	5	8	29	02	02	24		54	☾
6	6	8	25	01	58	25		51	
7	7	8	21	01	54	26		48	☾
8	E	8	17	01	50	27		45	
9	2	8	13	01	46	28		43	☾
10	3	8	11	01	42	29		40	
11	4	8	07	01	38	00	☾	37	II
12	5	8	03	01	34	01		34	
13	6	7	59	01	30	02		31	☾
14	7	7	55	01	26	03		28	
15	E	7	51	01	22	04		25	☾
16	2	7	47	01	18	05		22	
17	3	7	43	01	14	06		19	☾
18	4	7	39	01	10	07		16	
19	5	7	35	01	06	08		13	☾
20	6	7	31	01	02	09		10	
21	7	7	27	12	59	10		07	☾
22	E	7	23	12	55	11		04	
23	2	7	19	12	51	12		02	☾
24	3	7	15	12	47	13		59	
25	4	7	11	12	43	14		56	☾
26	5	7	07	12	39	15		53	
27	6	7	03	12	35	16		50	☾
28	7	6	00	12	31	17		47	
29	E	6	56	12	27	18		44	☾
30	2	6	52	12	23	19		41	

D. ☉. ☿. ☿. Length D. ☉. Declin. ☉. mer. Alt. ☉. Amp. ☉.

05	☿	28	7	32	15	04	23	08	70	35	32	14
05	☿	27	7	33	15	06	23	25	70	53	32	37
18	☿	26	7	34	15	08	23	31	71	01	32	45
16	☿	27	7	33	15	06	23	26	70	56	32	40
21	☿	28	7	32	15	04	23	12	70	42	32	18
16	☿	30	7	31	15	02	22	48	70	18	31	42

+ *Declines & longitudes*

FULL bath 31 days.

- New Moon 3. day 35 m past 9 night
- Second quarter 11. day 12 m past 6 morn.
- Full Moon 18 day 50 m past 2 aftern
- Last quarter 25. day 43 m past 9 night

M.W. Plan. Asp. Courts Anter & Cornu Vos. place place

1 3	Court at Plim. ⁸ York	8. 4	12	38	19	38	II
2 4		8. 4	12	35	20	35	
3 5	♂ ♀ Lun	8. 36	12	31	21	33	☾
4 6	☾ Perig	8. 32	12	27	22	30	
5 7	♂ ♀ Lun	8. 28	12	23	23	27	☾
6 8	♂ ♀ Lun	8. 24	12	19	24	24	☾
7 2	Artillery Elect. Salem.	8. 20	12	15	25	21	☾
8 3		8. 16	12	11	26	18	
9 4	♂ ♀ Lun & ♀ Lun	8. 12	12	07	27	15	☾
10 5		8. 08	12	03	28	13	
11 6	☾ ♀ Lun	8. 04	12	00	29	10	☾
12 7		8. 00	11	56	00	07	☾
13 8		7. 57	11	52	01	04	☾
14 2		7. 53	11	48	02	02	☾
15 3	♂ ♀ Lun	7. 49	11	44	02	59	☾
16 4		7. 45	11	40	03	56	☾
17 5		7. 41	11	36	04	53	☾
18 6	Lun Apogee	7. 37	11	32	05	51	☾
19 7	♂ ♀ Lun	7. 33	11	28	06	48	☾
20 8		7. 29	11	24	07	45	☾
21 2		7. 25	11	20	08	42	☾
22 3	♂ ♀ mer. & ♀ Lun	7. 21	11	16	09	40	☾
23 4		7. 17	11	12	10	38	☾
24 5	♂ ♀ Lun	7. 13	11	08	11	35	☾
25 6		7. 09	11	04	12	33	☾
26 7		7. 05	11	00	13	30	☾
27 8		7. 01	10	56	14	27	☾
28 2		6. 57	10	52	15	25	☾
29 3	County Court at Boston	6. 53	10	48	16	22	☾
30 4	♂ ♀ Lun	6. 49	10	44	17	20	☾
31 5	☾ Perig	6. 45	10	40	18	18	☾

U	Sol rise	Sol set	Length D	Sol decl.	Sol mer alt	Sol ampl.
1 4	32 7	28 14	56	22	13 69	42 30 50
6 4	36 7	24 14	48	21	32 63	02 29 50
11 4	40 7	20 14	40	20	33 63	05 28 30
16 4	45 7	15 14	30	19	32 67	02 26 55
21 4	50 7	10 14	20	18	24 65	34 25 30
26 4	55 7	05 14	10	17	07 64	37 23 32

AUGUST hath 31 dayes.

- New Moon 2. day 37 m past 4 morn
- Second quarter 9. day 19 m past 3 morn.
- Full Moon 17 day 8 m past 6 morn
- Last quarter 24. day 58 m past 10 night
- New Moon 21 day 44 m past noon.

M. W. Plan. Asp. Courts Antar & Cornu 906. ☉ place ☾ place

1	6			6N 4	10N 37	19	15	☉
2	2	♂	♂ Lun	6 38	10 33	20	13	☾
3	1	♂	♀ Lun	6 34	10 29	21	10	☾
4	4			6 30	10 25	22	08	☾
5	3	♂	♀ Lun ♂ ♀	6 27	10 21	23	06	☾
6	4			6 23	10 17	24	04	☾
7	5			6 19	10 13	25	01	☾
8	6			6 15	10 09	25	59	☾
9	7	☐	♂ Lun	6 11	10 05	26	57	☾
10	8			6 07	10 02	27	55	☾
11	9	☐	♂ ♀	6 03	09 58	28	53	☾
12	10	COMMENCEMENT.		6 00	09 54	29	50	☾
13	11			5 56	09 50	00	48	☾
14	12	☐	♀ ♀	5 52	09 46	01	46	☾
15	13			5 48	09 42	02	44	☾
16	14			5 44	09 38	03	42	☾
17	15	♂	♂ Lun	5 40	09 34	04	40	☾
18	16			5 36	09 30	05	38	☾
19	17	♂	♂ Lun	5 32	09 26	06	36	☾
20	18	♂	♂ Lun ♂ ♀ Lun	5 28	09 22	07	34	☾
21	19	♂	♂ Lun	5 24	09 18	08	33	☾
22	20	massa Luna & Cornu		5 20	09 14	09	31	☾
23	21			5 16	09 10	10	29	☾
24	22	☐	♂ Lun	5 12	09 06	11	27	☾
25	23			5 08	09 02	12	26	☾
26	24			5 04	08 59	13	24	☾
27	25	♂	♀ Lun	5 00	08 55	14	22	☾
28	26	☐	verig	4 56	08 51	15	21	☾
29	27			4 52	08 48	16	19	☾
30	28			4 49	08 44	17	18	☾
31	29	♂	♂ Lun	4 45	08 40	18	16	☾

☉ Sol rise. Sol set. Length D Sol decl. Sol mer alt. Sol ampl.

1	5	02 6	58 13	56 15	24 62	54 21	06
6	5	08 6	52 13	44 13	33 61	23 19	00
11	5	15 6	45 13	30 12	43 59	43 16	42
16	5	21 6	39 13	18 10	32 58	02 14	22
21	5	29 6	31 13	02 08	46 56	16 11	56
26	5	35 6	25 12	50 06	53 54	23 09	28

SEPTEMBER hath 30 dayes.

☾ Second quarter 7. day 15 m past 7. night

● Full Moon 15 day 27 m past 9 night

☾ Last quarter 22 day 59 m. past 9 in morn.

☾ New Moon 29. day 51 m past 10 night

M. W. Plan. Alt. Courts. Fomahant. S. Luc. plei. S. ☉ pla. ☾ P

12	11	10	9	8	7	6	5	4	3	2	1	12	11	10	9	8	7	6	5	4	3	2	1
Court Assist Boston	11	14	4	07	20	13																	
County Court Hartford	11	10	4	03	21	12																	
County Court Hartford	11	06	4	01	22	10																	
County Court Hartford	11	02	3	56	23	09																	
County Court Hartford	10	58	3	52	24	08																	
Artil. Elect. Cambridge	10	54	3	48	25	06																	
	10	50	3	44	26	05																	
	10	46	3	40	27	04																	
	10	42	3	36	28	03																	
Lun Apog. ☿ ☿ Lun	10	38	3	32	29	01																	
Day & night equal	10	34	3	28	29	59																	
	10	30	3	24	00	59																	
☿ ☿ Lun	10	27	3	20	01	58																	
☿ ☿ Lun	10	23	3	16	02	57																	
☿ ☿ Lun	10	19	3	12	03	56																	
☿ ☿ Lun	10	15	3	08	04	55																	
	10	11	3	04	05	54																	
	10	07	3	00	06	53																	
	10	03	2	57	07	53																	
	10	00	2	53	08	52																	
	09	56	2	49	09	51																	
County Court N-London	09	52	2	45	10	51																	
	09	48	2	41	11	50																	
Perigie	09	44	2	37	12	49																	
☿ Sol ☿ ☿ Lun	09	40	2	33	13	48																	
	09	36	2	29	14	47																	
☿ ☿ Lun	09	32	2	25	15	46																	
	09	28	2	21	16	47																	
Coun. Co. Ipsw. & Springf.	09	24	2	17	17	47																	

P. ☉ Rise. ☉ Sets. Length D. ☉ Declin. ☉ mer. Alt. ☉ Ampli

01	5	44	6	16	12	32	04	40	52	10	05	01
02	5	51	6	09	12	18	02	45	50	15	03	44
03	5	57	6	03	12	06	00	47	48	17	01	03
04	5	05	5	55	11	50	01	19	46	20	01	35
05	5	12	5	48	11	36	03	09	44	21	04	16
06	5	20	5	40	11	20	05	05	42	25	06	52

☾ New Moon 29 day 26 m past 11 before noon

M.W.Plan.Aspects Courts Formah S.Luc.pl S @place Cplace

1 4		9 N 10	02 Mr	15 46	10
2 5	♂ h ♂	9 16	02 0	19 46	11
3 6		9 12	02 0	23 45	12
4 7		9 08	02 0	21 45	13
5 E		9 04	02 5b	22 43	14
6 2		9 00	01 54	23 43	15
7 3	County Court Cambridge	8 57	01 5	24 44	16
8 4	Lun Apog.	8 53	01 46	25 44	17
9 5	♂ h ♀	8 49	01 42	26 44	18
10 6	♂ h ♀	8 45	01 30	27 44	19
11 7	♂ h ♀	8 41	01 30	28 44	20
12 8		8 37	01 26	29 44	21
13 2	♂ h Luo	8 33	01 2	30 44	22
14 3	Cy. Aff. Harf. Co. Hamp.	8 29	01 18	02 44	23
15 4	♂ ♂ mer.	8 25	01 14	03 44	24
16 5		8 21	01 10	04 44	25
17 6		8 17	01 06	05 44	26
18 7		8 13	01 02	06 45	27
19 E		8 09	12 59	07 45	28
20 2		8 05	12 55	08 45	29
21 3	♂ ♀ mer	8 01	12 51	09 45	30
22 4	Lun perig.	7 58	12 47	10 46	31
23 5		7 54	12 43	11 46	32
24 6		7 50	12 39	12 46	33
25 7		7 46	12 35	13 47	34
26 8	♂ h Lun ♂ ♀ Lun	7 42	12 31	14 47	35
27 2	♂ ♂ Luo	7 38	12 27	15 48	36
28 3	County Court Boston & Plymouth	7 34	12 23	16 48	37
29 4		7 30	12 20	17 49	38
30 5		7 26	12 16	18 49	39
31 6		7 22	12 12	19 49	40

D Rise Sets Length D Decl. Sol mer alt Sol amp

1	6	27	3	34	11	08	07	06	40	00	09	31
1	6	34	5	20	10	52	08	50	38	38	12	r 2
1	6	4	5	19	10	38	10	22	37	10	14	05
1	6	47	5	13	10	26	12	27	35	03	17	00
1	6	5	5	09	10	12	14	09	35	21	r 9	22
1	6	54	5	00	10	00	15	43	31	47	21	26

DECEMBER bath 31 days.

- ☾ Second quarter 6 day 31 m. past 5 morn
- Full Moon 13 day 38 m. past 3 aftern
- ☾ Last quarter 20 day 54 m. past 5 morn
- ☾ New Moon 27 day 54 m. past 8 night

M W Plan Alp Courts Regel S A Idebar S ☉ place ☾ place

1	2		IN 5 11 IN 14	20	3	
2	3	Lun Apog.	II 50 11	18	21	23
3	4		II 46 11	06	22	21
4	5		II 42 11	02	23	22
5	6		II 38 10	59	24	24
6	7		II 34 10	55	25	25
7	8	☿ Lun ☿ ☿	II 30 10	51	26	26
8	9		II 26 10	47	27	27
9	10	☿ Lun	II 22 10	43	28	29
10	11	☿ Lun	II 18 10	39	29	31
11	12	☿ Lun Shortest day	II 14 10	35	00	31
12	13	☿ Lun 3 Snow	II 10 10	31	01	32
13	14		II 06 10	27	02	31
14	15	☿ Lun	II 02 10	23	03	35
15	16		II 59 10	19	04	35
16	17	Coan. Co Charist. C perig	II 55 10	15	05	33
17	18		II 51 10	11	06	39
18	19		II 47 10	07	07	40
19	20	☿ Lun ☐ h ☉	II 43 10	03	08	42
20	21		II 39 10	00	09	43
21	22		II 35 09	56	10	44
22	23	☿ Lun	II 31 09	52	11	45
23	24	☿ Lun	II 27 09	48	12	47
24	25	☿ Lun	II 23 09	44	13	48
25	26	☿ Lun	II 19 09	40	14	49
26	27	☿ mer Lun	II 15 09	36	15	51
27	28		II 11 09	32	16	52
28	29		II 07 09	28	17	53
29	30		II 03 09	24	18	54
30	31	☿ Apog	II 00 09	20	19	55
31		☿ ☉	II 56 09	16	20	57

D ☉ rise. ☉ sets Length D. ☉ decl. Sol mer alt Sol ampl.

1	7	32	4	28	8	56	23	05	24	25	32	07
6	7	33	4	27	8	54	23	24	24	06	32	34
11	7	34	4	26	8	52	23	31	23	59	32	43
16	7	33	4	27	8	54	23	26	24	04	32	37
21	7	32	4	28	8	56	23	10	24	20	32	44
26	7	29	4	31	9	02	22	46	24	44	31	41

7 JANUARY hath 31 dayes.

- ☾ Second quarter 4 day 50 m past 10 morn
- Full moon 12 day 45 m past morn
- ☾ Last quarter 19 day 3 m before noon
- ☾ New Moon 26 day 10 m past 4 night

M.W.Plan.Aspects Courts Sirius S. Castor S Oplice Cp^{lac}

1 5		10 N. 59	11 N 36	21 V. 58	✕
2 6		10 55	11 32	22 59	
3 7		10 51	11 28	24 00	γ
4 E	♂ ♀ Lun s	10 47	11 24	25 02	
5 2		10 4	11 20	26 03	
6 3	♂ ♀ Lun	10 35	11 16	27 04	♂
7 4		10 35	11 12	28 05	
8 5	♂ ♂ Lun	10 5	11 08	29 07	Π
9 6		10 2	11 04	00 08	
10 7	♂ ♀ Lun ♂ ♀ Lun	10 22	11 00	01 09	⊖
11 E		10 19	10 57	02 10	
12 2	♂ ♀ mer	10 15	10 53	03 11	
13 3	Lun perig. ♂ ♀	10 1	10 49	04 12	Ω
14 4		10 07	10 45	05 13	μ
15 5		10 03	10 41	06 14	
16 6	♂ ♀ Lun	10 00	10 37	07 15	⊖
17 7		09 56	10 33	08 16	⊖
18 E	♂ ♀ mer	09 52	10 29	09 17	⊖
19 2	♂ ♀ Lun	09 48	10 25	10 18	⊖
20 3		09 44	10 21	11 19	
21 4		09 40	10 17	12 20	♂
22 5	♂ ♂ Lun	09 36	10 13	13 21	♂
23 6		09 32	10 09	14 22	♂
24 7	♂ ♀ Lun	09 28	10 05	15 23	♂
25 E	♂ ♀ mer	09 24	10 01	16 24	♂
26 2	Lun Apog. ♂ ♀	09 20	09 58	17 25	♂
27 3	County Court Boston	09 16	09 54	18 26	♂
28 4		09 12	09 50	19 27	♂
29 5		09 08	09 46	20 28	♂
30 6	♂ ♀ Lun ♂ ♀ mer	09 04	09 42	21 29	γ
31 7		09 00	09 38	22 30	

D. ☉ rise Sol set Length D Sol dec l Sol mer alt. Sol ampl

1	7	25	4	35	9	10	21	52	25	38	30	21
6	7	22	4	38	9	16	21	00	26	30	29	05
11	7	19	4	43	9	26	19	57	27	33	27	04
16	7	12	4	48	9	36	18	46	28	44	25	41
21	7	07	4	53	9	46	17	36	30	04	23	59
26	7	01	4	59	9	58	5	57	31	33	21	53

DECEMBER bath 31 days.

Second quarter 6 day 31. m. past 5 morn

● Full Moon 13 day 38 m. past 3 aftern

☾ Last quarter 20 day 54 m. past 5 morn

☾ New Moon 27 day 54 ^{hrs.} past 8 night

M W Plan Asp Courts

Regel S Aīdebar S ⊙ place ⊆ place

[illegible]

D. Grise. Sets Length D. Decl. Sol mer alt Sol ampl.

I	7	32	4	28	8	56	23	05	24	25	27	07
6	7	33	4	27	8	54	22	24	24	06	32	34
11	7	34	4	26	8	52	23	31	23	59	32	42
16	7	33	4	27	8	54	23	26	24	04	32	37
21	7	32	4	28	8	56	23	10	24	20	32	44
26	7	29	4	31	9	02	12	46	24	44	31	41

7 JANUARY bath 31 dayes.

- ☾ Second quarter 4 day 50 m past 10 morn
- Full moon 12 day 45 m past morn
- ☾ Last quarter 19 day 3 m before noon
- ☾ New Moon 26 day 10 m past 4 night

M.W.Plan.Aspects Courts Syrius S. Castor S ☉ place ☾^{pac}

1 5		10 N 59	11 N 36	21 V 58	✕
2 6		10 55	11 32	22 59	
3 7		10 51	11 28	24 00	✓
4 E	☾ Lun s <i>5 m or night</i>	10 47	11 24	25 02	
5 2		10 4	11 20	26 03	
6 3	♂ ♀ Lun	10 35	11 16	27 04	♂
7 4		10 35	11 12	28 05	
8 5	♂ ♂ Lun	10 3	11 08	29 07	☿
9 6		10 2	11 04	00 08	☿
10 7	♂ ♀ Lun ♂ ♀ Lun	10 22	11 00	01 09	☿
11 E		10 15	11 57	02 10	
12 2	♂ ♀ mer	10 15	11 53	03 11	
13	Lun perig. <i>5 m or 10</i>	10 1	11 49	04 12	☿
14 4		10 07	11 45	05 13	☿
15 5		10 03	11 41	06 14	☿
16 6	♂ ♀ Lun	10 00	11 37	07 15	☿
17 7		09 56	11 33	08 16	☿
18 E	<i>5 m or 10</i>	09 52	11 29	09 17	☿
19 2	♂ ♀ Lun	09 48	11 25	10 18	☿
20 3		09 44	11 21	11 19	☿
21 4		09 40	11 17	12 20	☿
22 5	♂ ♂ Lun	09 36	11 13	13 21	☿
23 6		09 32	11 09	14 22	☿
24 7	♂ ♀ ♂ Lun	09 28	11 05	15 23	☿
25 E	<i>5 m or 10</i>	09 24	11 01	16 24	☿
26 2	Lun Apog. <i>5 m or 10</i>	09 20	10 58	17 25	☿
27 3	County Court Boston	09 16	10 54	18 26	☿
28 4		09 12	10 50	19 27	☿
29 5		09 08	10 46	20 28	☿
30 6	♂ ♀ Lun <i>5 m or 10</i>	09 04	10 42	21 29	☿
31 7		09 00	10 38	22 30	☿

D. ☉ rise Sol set Length D Sol dec l Sol mer alt. Sol ampl

1	7	25	4	35	0	10	21	52	25	38	30	21
6	7	22	4	38	9	16	21	50	26	30	29	05
11	7	19	4	43	9	26	19	57	27	33	27	04
16	7	13	4	48	9	36	18	46	28	44	25	41
21	7	07	4	53	9	46	17	26	30	04	23	59
26	7	01	4	59	9	58	15	57	31	33	21	53

FEBRUARY hath 28 dayes.

- ☾ Second quarter 3 day 27 m. past 1 morn.
- ☾ Full Moon 10 day 43 m. past 10 morn
- ☾ Last quarter 17 day 39 m. past 7 morn
- ☾ New Moon 25 day 46 m. past 10 morn

M.W.	Plan.	Afp.	Courts &c	Syrius S	Castor S	☉ place	☿ plac
1	E			8N 57	9N 34	23 29	
2		♂	♂ Lun	8 53	9 30	24 29	♂
3		♂		8 49	9 26	25 30	
4		♂		8 45	9 22	26 30	♂
5		♂		8 41	9 18	27 31	
6		♂	♂ Lun <i>the snow</i>	8 37	9 14	28 31	♂
7		♂		8 33	9 10	29 32	
8	E	♂	♂ Lun	8 29	9 06	00 32	♂
9		♂	♂ Lun ☾ perig	8 25	9 02	01 33	♂
10		♂		8 21	8 59	02 33	♂
11		♂		8 17	8 55	03 33	♂
12		♂	♂ Lun	8 13	8 51	04 34	♂
13		♂		8 11	8 47	05 34	♂
14		♂		8 07	8 43	06 34	♂
15		♂	♂ Lun <i>the snow</i>	8 03	8 39	07 34	♂
16		♂	♂ Lun <i>the snow</i>	8 00	8 35	08 35	♂
17		♂		7 56	8 31	09 35	♂
18		♂		7 52	8 27	10 35	♂
19		♂		7 48	8 23	11 35	♂
20		♂	♂ Lun	7 44	8 19	12 35	♂
21		♂	♂ Lun	7 40	8 13	13 35	♂
22	E	♂		7 36	8 09	14 35	♂
23		♂	Lun Apog.	7 32	8 05	15 35	♂
24		♂	♂ Lun	7 28	8 01	16 35	♂
25		♂		7 24	7 58	17 35	♂
26		♂	♂ Lun <i>the snow</i>	7 20	7 54	18 35	♂
27		♂	♂ Lun	7 16	7 50	19 35	♂
28		♂	♂ Lun	7 12	7 46	20 34	♂

☉	Sol rise	Sol set	Length	D.	Sol decl.	Sol mer alt	Sol ampl
1	6 53	5 07	10 14	14 03	33 27	19 18	
6	6 45	5 15	10 30	12 22	35 08	16 50	
11	6 38	5 22	10 44	10 36	36 54	14 26	
16	6 31	5 29	10 58	18 45	38 45	11 55	
21	6 24	5 36	11 12	06 53	40 37	09 19	
26	6 17	5 43	11 26	04 56	42 34	06 42	

A Continuation of the Chronological Table of Memorable Occurrences happening in New England, which was affixt to the Almanack made for 1669 and ended at 67.

year	m	d	
1668.	2	7	M ^r . Samuel Stepard pastour of the Church of Roxbury dyed
	5	9	M ^r . Jonathan Michel pastour of the Church of Cambridge deceased
	8	13	M ^r . John Elliot Pastour of the Church of New-Cambridge dyed.
69	2	21	M ^r . John Reynor Teacher of Dorey Church dyed
	1	22	M ^r . Richard Mather Pastour of the Church of Dorchester deceased.
	3	12	The third Church of Boston gathered at Charlestown,
	4	13	Old Father Boniface Burton aged 113 years dyed
	12	2	M ^r . Benjamin Bunker Minister at Malden dyed.
			This year 69 were many Earthquakes perceived in this Colony at sundry times and places.
70	1	16	M ^r . John Davenport Pastour of the first Church of Boston dyed
	4		A strange Mortality of the Fish in a Pond near Cambridge, the manner whereof was very wonderful, and the number almost incredible, as many eye witnesses can testify
	12	4	M ^r . Zechariah Simmes Pastour of the Church of Charlestown dyed
71	2		Francis Willoughby Esqr. Deputy Governour of the Massachusetts Colony dyed
	6	26	M ^r . John Allin Pastour of the Church of Dedham dyed
	12	19	Charles Chauncy B.D. second President of Harvard Colledge deceased in the 30th year of his age and 17th year of his Presidentship
72	5	13	M ^r . Alexander Noel Fellow of Harvard Colledge dyed
	8	15	M ^r . Antipas Newman Pastour of Wenham Church dyed
	9	3	Eliazar Luster Esqr Assistant of this Colony and Major of Suffolk Regiment dyed
	1	7	Richard Bellingham Esqr Governour of the Massachusetts Colony, and the last Patenssee, dyed in the 81 year of his age
	10	16	Leonard Hoar D. Ph. Constituted third President of Harvard Colledge

This

1672. This year was gathered a general and liberal Contribution through the whole Massachusetts Colony, for erecting of New buildings for the Colledge at Cambridge, amounting to two or three thousand pounds, which its expected will receive considerable additions from the other two Colonies; As also from other places.

An Explanation of the Almanack,

IN the top of the leaf, after the names of the Months, are the changes of the Moon, which if not exactly calculated yet may serve for common observation.

Next under the Changes of the Moon are seven Columns, in the first whereof are set down the dayes of the Month, in the second the dayes of the Week, the Dominical letter R, signifying the Sabbath day.

In the third, the most considerable aspects of the Planets, the Courts and Artilleries.

In the fourth and fifth, the southing of two noted Stars, every two months generally having two distinct Stars, by the southing of which together with their rising and setting (known by the Table of their half shining prefix) the time of the night may be guessed. Where the letter M notes the southing of the Star in the morning, and N. that the time of southing is in the night.

In the sixth, the Suns Longitude or place, for every day.

In the last, the Moons place, or the day of the Moons entring into each sign.

In the first of the lower Columns, is set down every fifth day of the Month.

In the second, the rising of the Sun; in the third, the setting of the Sun; in the fourth, the length of the day, the figures standing for hours and minutes; In the fifth, the Declination of the Sun from the Equinoctial;

The Sun having south declination from the first of March to the tenth of March, and North declination from the tenth of March to the twelfth of September, and South declination from the twelfth of September to the end of the year.

In the sixth, the Meridian Altitude of the Sun, or the height of the Sun from the Horizon at noon; In the seventh, the Amplitude of the Sun for every fifth day of the Month; the figures in the three last Columns noting Degrees and Minutes.

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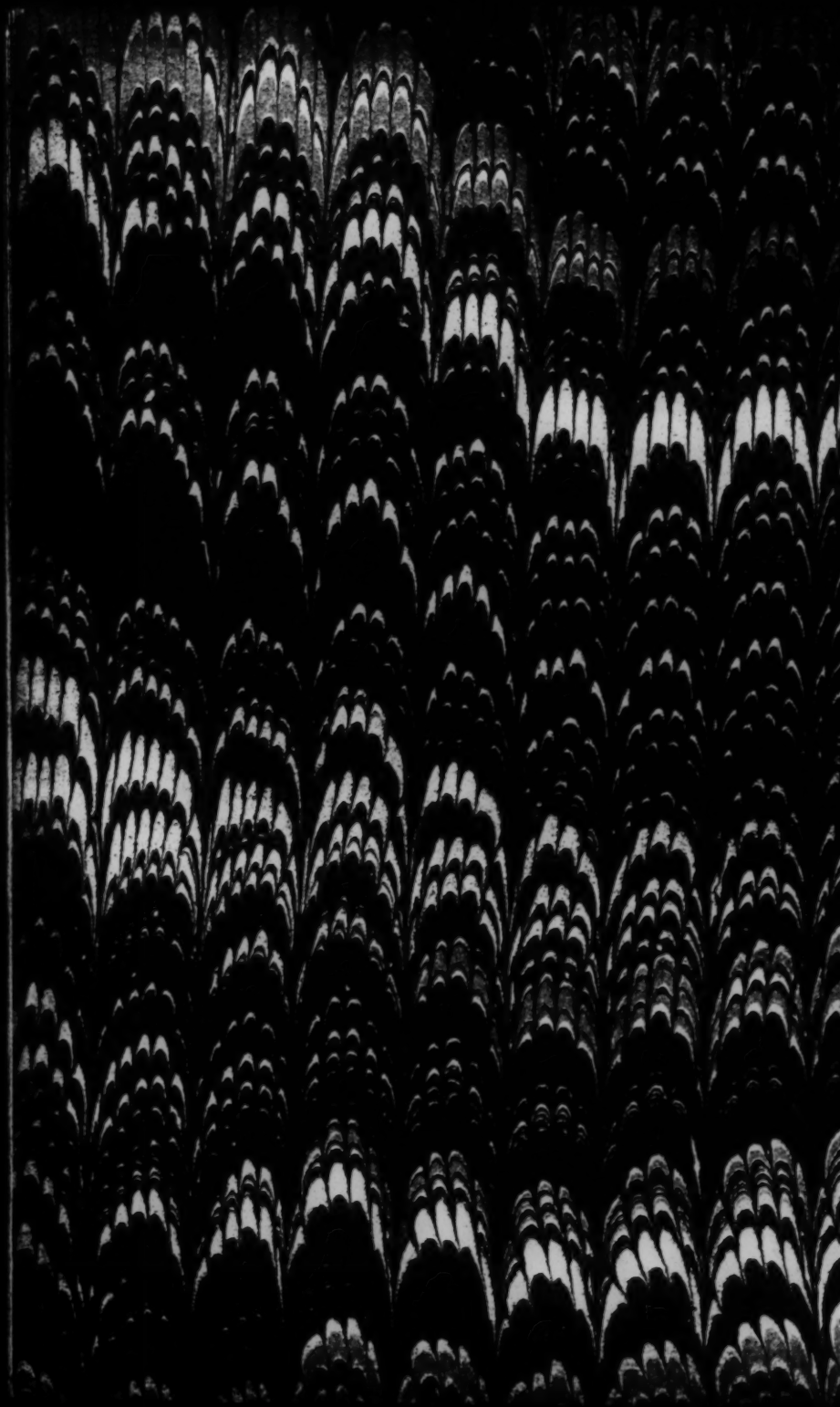
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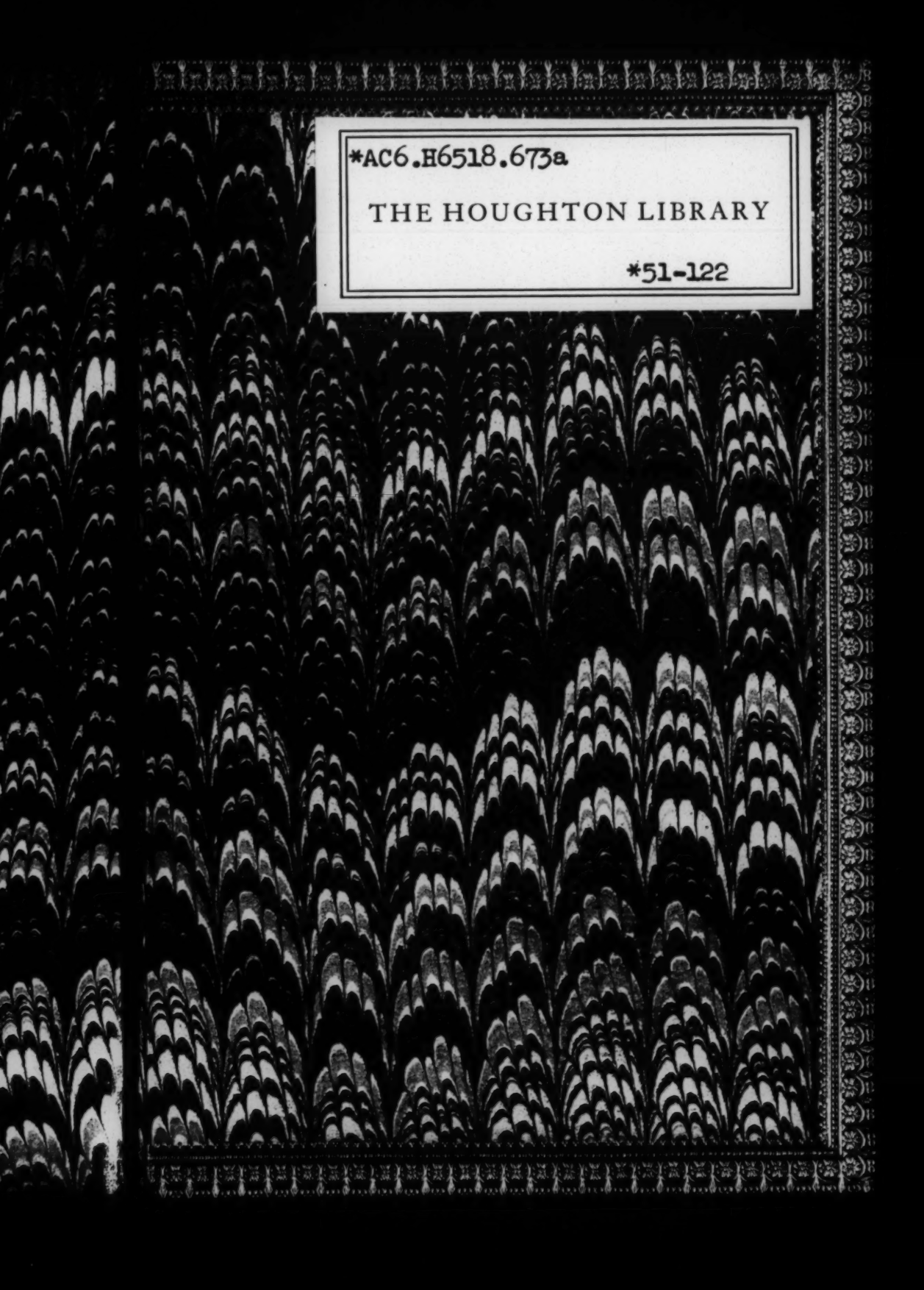
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